ELSEVIER

Gene Structure and Expression

Vol. 1217, 1994

BBA Biochimica et Biophysica Acta

Cumulative Contents

Information for Contributors vii

Regular Papers

A new member to the astasin family of metalloendopeptidases: A novel 1,25-dihydroxyvitamin D-3-stimulated mRNA from chorioallantoic membrane of quail
M.A. Elaroussi and H.F. DeLuca (USA) 1

Characterization of singlet oxygen-induced guanine residue damage after photochemical treatment of free nucleosides and DNA
E. Kvam, K. Berg and H.B. Steen (Norway) 9

Synthesis and expression of a gene coding for *Erythrina* trypsin inhibitor (ETI)
A.V. Teixeira, E.B.D. Dowdle and D.P. Botes (South Africa) 16

Site-directed mutagenesis of the synthetic *Erythrina* trypsin/tissue plasminogen activator (tPA) inhibitor encoding-gene to compare the interaction of *Erythrina* and soybean trypsin inhibitor with tPA
A.V. Teixeira, E.B.D. Dowdle and D.P. Botes (South Africa) 23

In vitro conversion of recombinant human proapolipoprotein A-I to apolipoprotein A-I
K. Saku, H. Bai, K. Hirata, R. Liu, B. Zhang, K. Ohkubo, K. Yamamoto and K. Arakawa (Japan) 29

Purification and identification of two major single-stranded binding proteins of yeast *Saccharomyces cerevisiae* as ribosomal protein L4 and histone H2B
M.E. Cusick (USA) 31

Cloning of cDNA for rat proα1(III) collagen mRNA. Different expression patterns of type I and type III collagen and fibronectin genes in experimental granulation tissue
V. Glumoff, J.K. Mäkelä and E. Vuorio (Finland) 41

Effects of double amino-acid substitution polymorphism in acid β-galactosidase gene in two inbred strains of mice
Y. Hara, J. Nishimoto and K. Suzuki (USA) 49

Proximal regulatory elements and nuclear activities required for transcription of the human Na^+/H^+ exchanger (NHE-1) gene
A.Y. Kolyada, T.V. Lebedeva, C.A. Johns and N.E. Madias (USA) 54

Specific 3′ sequences flanking a minimal apolipoprotein B (apoB) mRNA editing 'cassette' are critical for efficient editing in vitro
J.W. Backus and H.C. Smith (USA) 65

Regulation of the expression of the H^+-ATPase genes *PMA1* and *PMA2* during growth and effects of octanoic acid in *Saccharomyces cerevisiae*
C.A. Viegas, P. Supply, E. Capieaux, L. Van Dyck, A. Goffeau and I. Sá-Correia (Portugal, Belgium) 74

The FAR domain defines a new *Xenopus laevis* zinc finger protein subfamily with specific RNA homopolymer binding activity
B. Klocke, M. Köster, S. Hille, T. Bouwmeester, S. Böhm, T. Pieler and W. Knöchel (Germany) 81

Short Sequence Papers

Isolation and sequence of a rat glucose-6-phosphate dehydrogenase promoter
K.B. Rank, P.K. Harris, L.C. Ginsberg and S.R. Stapleton (USA) 90

Secondary thrombin-binding site, glycosaminoglycan binding domain and reactive center region of leuserpin-2 are strongly conserved in mammalian species
D. Westrup and H. Ragg (Germany) 93

Organization and nucleotide sequence of the *secE-nusG* region of *Streptomyces griseus*
K. Miyake, H. Onaka, S. Horinouchi and T. Beppu (Japan) 97

Cloning and sequence analysis of the β subunit of the human translocon-associated protein
M. Bodescot and O. Brison (France) 101

Cloning and sequence analysis of a *Drosophila melanogaster* cDNA encoding IMP dehydrogenase
C.D. Sifri, K. Wilson, S. Smolik, M. Forte and B. Ullman (USA) 103

Rat desmin gene structure and expression
J.J.M. Van Groningen, H.P.J. Bloemers and G.W.M. Swart (Netherlands) 107

Review

The initiator protein DnaA: evolution, properties and function
K. Skarstad and E. Boye (Norway) 111

Regular Papers

Characterizations of sea urchin fibrillar collagen and its cDNA clone
M. Tomita, T. Kinoshita, S. Izumi, S. Tomino and K. Yoshizato (Japan) 131

In vitro methylation of the human O^6-methylguanine-DNA methyltransferase promoter reduces transcription
L.C. Harris, J.S. Remack and T.P. Brent (USA) 141

Mosquito large subunit ribosomal RNA: simultaneous alignment of primary and secondary structure
K.M. Kjer, G.D. Baldridge and A.M. Fallon (USA) 147

Gene amplification and dual point mutations of mouse IMP dehydrogenase associated with cellular resistance to mycophenolic acid
T. Lightfoot and F.F. Snyder (Canada) 156

Developmental regulation of rat serine dehydratase gene expression: evidence for the presence of a repressor in fetal hepatocytes
C. Noda, C. Fukushima, T. Fujiwara, K. Matsuda, Y. Kobune and A. Ichihara (Japan) 163

cDNA cloning of an alternatively spliced isoform of the regulatory subunit of Ca^{2+}/calmodulin-dependent protein phosphatase (calcineurin Bα2)
C.-D. Chang, H. Mukai, T. Kuno and C. Tanaka (Japan) 174

Variations in base pair composition and associated long-range correlations in DNA sequences – computer simulation results
C.A. Chatzidimitriou-Dreismann, R.M.F. Streffer and D. Larhammar (Germany, Sweden) 181

Analysis of the promoter of the human prostatic acid phosphatase gene
B. Banas, D. Blaschke, F. Fittler and W. Hörz (Germany) 188

Short Sequence-Papers

Cloning and expression of interleukin-3 genes of chimpanzee and New World monkeys
H. Burger, M.C. Mostert, E.M. Kok, G. Wagemaker and L.C.J. Dorssers (Netherlands) 195

Isolation, structural determination and expression of a novel *reg* gene, human *reg* Iβ
S. Moriizumi, T. Watanabe, M. Unno, K.-i. Nakagawara, Y. Suzuki, H. Miyashita, H. Yonekura and H. Okamoto (Japan) 199

Identification and characterization of the developmentally regulated pattern of expression in the testis of a mouse gene exhibiting similarity to the family of phosphodiesterases
V. Vambutas and D.J. Wolgemuth (USA) 203

Guanine nucleotide exchange factor for eukaryotic initiation factor-2. Cloning of cDNA for the δ-subunit of rabbit translation initiation factor-2B
N.T. Price, G. Francia, L. Hall and C.G. Proud (UK) 207

Secondary structure model for an unusual SSU rRNA from the extremely thermophilic bacterium strain AZ3 B.1
D.J. Saul, L.C. Williams, R.A. Reeves and P.L. Bergquist (New Zealand) 211

Cloning and sequencing of a gene coding for an actin binding protein of *Saccharomyces exiguus*
U. Lange, S. Steiner, F. Grolig, G. Wagner and P. Philippsen (Germany) 214

Sequence analysis of a cDNA encoding a human nuclear pore complex protein, hnup153
I. McMorrow, R. Bastos, H. Horton and B. Burke (USA) 219

cDNA encoding a novel TCP1-related protein
E.C. Joly, G. Sévigny, I.T. Todorov and V. Bibor-Hardy (Canada, Bulgaria) 224

Cloning and characterization of the ribosomal protein L8 gene from *Xenopus laevis*
Y.-B. Shi and V.C.-T. Liang (USA) 227

Molecular cloning and sequence analysis of hamster CYP2E1
T. Sakuma, M. Takai, T. Yokoi and T. Kamataki (Japan) 229

Rapid Report

hnRNP-U/SAF-A is encoded by two differentially polyadenylated mRNAs in human cells
F.O. Fackelmayer and A. Richter (Germany) 232

Promoter Paper

Structure and analysis of the 5′ flanking region of the human interleukin-2 gene
E. Jankevics, G. Makarenkova, A. Tsimanis and E. Grens (Latvia) 235

Review

Recent developments in the initiation of chromosomal DNA replication: a complex picture emerges
A. Rowley, S.J. Dowell and J.F.X. Diffley (UK) 239

Regular Papers

Molecular cloning and characterization of an isoprenylated 67 kDa protein
V.K. Asundi, R.C. Stahl, L.J. Showalter, K.J. Conner and D.J. Carey (USA) 257

Interactions among four subunits of elongation factor 1 from rice embryo
S.-i. Ejiri, R. Kawamura and T. Katsumata (Japan) 266

Coordinated expression and mechanism of induction of HSP32 (heme oxygenase-1) mRNA by hyperthermia in rat organs
V.S. Raju and M.D. Maines (USA) 273

Localization of c-*myc* protooncogene expression in the rat heart in vivo and in the isolated, perfused heart following treatment with norepinephrine
R.D. Hannan, F.A. Stennard and A.K. West (Australia) 281

The giant extracellular hemoglobin from the polychaete *Neanthes diversicolor*. The cDNA-derived amino acid sequence of linker chain L2 and the exon/intron boundary conserved in linker genes
T. Suzuki, T. Ohta, H.J. Yuasa and T. Takagi (Japan) 291

Characterisation of functional domains within the mouse erythropoietin 3′ enhancer conveying oxygen-regulated responses in different cell lines
C.W. Pugh, B.L. Ebert, O. Ebrahim and P.J. Ratcliffe (UK) 297

Short Sequence-Papers

Organization of the mouse GP42/Basigin gene: a member of the Ig superfamily
Y. Cheng, X. Li, J. Kamholz and F.R. Burns (USA) 307

Molecular cloning of the murine homologue of CD63/ME491 and detection of its strong expression in the kidney and activated macrophages
H. Miyamoto, M. Homma and H. Hotta (Japan) 312

Molecular cloning and functional analysis of a cDNA coding for human DOPAchrome tautomerase/tyrosinase-related protein-2
K. Yokoyama, H. Suzuki, K.-i. Yasumoto, Y. Tomita and S. Shibahara (Japan) 317

A novel actin cDNA is expressed in the neurons of *Aplysia californica*
L. DesGroseillers, D. Auclair, L. Wickham and M. Maalouf (Canada) 322

Cloning and sequencing of a cDNA encoding the murine vitamin K-dependent protein S
M.D. Chu, J. Sun and P. Bird (Australia) 325

Cloning and nucleotide sequence of a full length cDNA encoding ribosomal protein L27 from human fetal kidney
R.A. Gallagher, P.M. McClean and A.N. Malik (UK) 329

The nucleotide sequence of the gene coding for the elongation factor 1α in *Sulfolobus solfataricus*. Homology of the product with related proteins
P. Arcari, M. Gallo, G. Ianniciello, A. Dello Russo and V. Bocchini (Italy) 333

Sequencing of a cDNA encoding the human fast-twitch skeletal muscle isoform of troponin I
L. Zhu, G. Perez-Alvarado and R. Wade (USA) 338

Rapid Report

Formation of a hairpin structure by telomere 3′ overhang
K.-H. Choi and B.-S. Choi (South Korea) 341

Promotor Paper

Isolation of promoter for cytosolic phospholipase A_2 (cPLA2)
A. Tay, P. Maxwell, Z.G. Li, H. Goldberg and K. Skorecki (Canada) 345

Titles of related papers in other sections 349

Cumulative Contents 351

Author Index 354